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1916, at which a permanent organization is to be effected.

Resolved, Third, That pending the formation of a permanent organization the temporary officers continue together with two members to be appointed by the chair as an executive committee with authority to incur necessary expenses, and that the temporary officers be authorized and empowered to take all necessary action in furtherance of the purposes of the permanent organization.

Resolved, Fourth, That the proposed organization when so effected shall through its various members and organizations endeavor to collect sufficient funds to carry out the purposes of this association.

Resolved, Fifth, That each national body or society becoming a member of this organization shall select its representative and notify the temporary secretary of such membership and selection.

Resolved, Sixth, That the temporary organization commends to the permanent organization the annual award of one or more medals which, together with honorariums, shall be termed The Holmes Award for the encouragement of those originating, developing and installing the most efficient "safety first" devices, appliances or methods in the mineral industry and also special medals for the recognition of personal heroism or distinguished service in the mineral industry. However, further suggestions are invited from the organizations to be represented in this association.

SCIENTIFIC NOTES AND NEWS

PROFESSOR STEPHEN ALFRED FORBES, of the University of Illinois, and Professor Samuel Wendell Williston, of the University of Chicago, were elected honorary fellows of the Entomological Society of America at its meeting at Columbus, Ohio.

DR. P. A. LEVENE, member of the Rockefeller Institute for Medical Research and director of the chemical laboratories, has been elected an ordinary member of the Regia Societas Scientiarum Upsaliensis in recognition of his scientific activities.

THE Geological Society of London has made the following awards of medals and funds: Wollaston medal, Dr. A. P. Karpinsky (Petrograd); Murchison medal, Dr. R. Kidston, F.R.S. (Stirling); Lyell medal, Dr. C. W. Andrews, F.R.S. (Natural History Museum,

London); Wollaston fund, Mr. W. B. Wright (Geological Survey of Ireland); Murchison fund, Mr. G. W. Tyrrell (Glasgow University); Lyell fund, Messrs. M. A. C. Hinton and A. S. Kennard.

THE faculty of Presidency College, Calcutta, has appointed Dr. J. C. Bose professor emeritus.

AMONG the members of the Assay Commission for the coming year, appointed by President Wilson, are Professor Jas. Lewis Howe, Washington and Lee University; Professor Andrew C. Lawson, University of California, and Dr. F. W. Clarke, U. S. Geological Survey. The commission will meet at the Philadelphia Mint February 9 to test the weight and fineness of the coins reserved by the several mints of the country during the past year.

A COMPLIMENTARY dinner was given to Professor Victor C. Vaughan, dean of the medical department of the University of Michigan, at the Harvard Club, New York City, by the faculty of the University and Bellevue Hospital Medical College, on January 12.

As has been already announced, Dr. John H. Wigmore, professor of law in Northwestern University, was elected president of the American Association of University Professors at the annual meeting. It is now announced that Professor H. W. Tylor, professor of mathematics at the Massachusetts Institute of Technology, has been elected to the secretaryship.

DR. W. H. PERKIN, F.R.S., professor of chemistry at the University of Oxford, has accepted the post of head of the research department of British Dyes, Limited. He has also accepted the chairmanship of the Advisory Council of that company, in the place made vacant by the death of the late Professor Raphael Meldola, F.R.S.

THE loss which the U. S. Geological Survey has suffered through the death of Mr. Sledge Tatum necessitates the following assignments in the topographic branch: William H. Heron to be acting chief geographer to serve for the balance of the fiscal year; Glenn S. Smith as topographic engineer in charge of the central division for the same period, and Claude

H. Birdseye as topographic engineer in charge of the Rocky Mountain Division. In case of the temporary absence of the branch chief the division chiefs will act for him with full authority, in the following order of seniority: Frank Sutton, T. G. Gerdine, G. R. Davis, C. H. Birdseye, G. S. Smith.

C. WILLIAM BEEBE, curator of birds of the New York Zoological Society, has sailed for British Guiana to establish a tropical zoological station. Mr. Beebe will build a bungalow on the edge of the jungle and there he will study the habits of birds in their own province. A complete laboratory outfit will be taken. With him will be Inness Hartley, who goes as research associate; Paul Holmes, whose interest is in photography and work with insects, and Mr. Carter, who goes as collector.

PROFESSOR CHARLES H. TUCK, of the college of agriculture, Cornell University, has left Ithaca on a sabbatic leave of absence which will extend to next September. He is on his way to Manchuria, where he is to make agricultural investigations.

PROFESSOR S. NAWASCHIN, for many years professor of botany in the University of Kiew, Russia, and also director of the botanical garden of that place, has gone to Tiflis. He wishes his botanical correspondents to note that his address is now Botanic Garden, Tiflis (Caucas), Russia.

THE Frederick Forchheimer chair of medicine in the University of Cincinnati was formally inaugurated on January 28. President Charles W. Dabney made an address on Frederick Forchheimer and scientific methods; Dr. Christian R. Holmes, dean of the college of medicine, spoke on the history of the founding of the chair, and Dr. Roger S. Morris, recently appointed to the chair, also made an address.

PROFESSOR LAFAYETTE B. MENDEL, of Yale University, will give a course of three lectures at the University of Illinois on the subject of "Some Features of Growth," February 10, 11 and 12. He will also be a speaker at an assembly of the College of Agriculture, when he will speak on the topic, "Changes in the Food Supply and Their Relation to Nutrition."

BEFORE the New York Electrical Society on January 27, Professor Michael I. Pupin, of Columbia University, gave an address on "Wireless Transmission Problems."

THE Lettsomian lectures before the Medical Society of London will be delivered by Major F. W. Mott, F.R.S., on February 7 and 21 and March 6, the subject selected being the effects of high explosives on the central nervous system.

THE late Professor Meldola bequeathed his entomological collection and cabinets to the Hope Museum, Oxford. If there are no grandchildren £500 each is to be paid to the Royal Society, the Chemical Society, the Entomological Society and the Institute of Chemistry of Great Britain and Ireland.

A GIFT of \$2,000 has been made to Cornell University by Professor Simon H. Gage and his son, Henry Phelps Gage, to provide for the construction of a room in a new dormitory for women students. The gift is made as a memorial to Susanna Phelps Gage (Mrs. Simon H. Gage), author of valuable contributions to embryology and comparative anatomy.

THE Medical Society of the District of Columbia and the Association for the Prevention of Tuberculosis of the District held a joint meeting on January 19, in memory of the late Surgeon-General George M. Sternberg, U. S. Army. Addresses were delivered by Drs. George M. Kober, William C. Gwynn and Harvey W. Wiley.

MR. SLEDGE TATUM died on January 18 after a long service with the Geological Survey. He was a topographer from 1899 to 1904. He then served on the Isthmian Canal Commission for four years, when he returned to the Geological Survey as topographic engineer and was appointed geographer of the Rocky Mountain Division in 1910. A short time prior to his death he was appointed acting chief geographer. Mr. Tatum's services to the government have been of a high order. He had ability and enthusiasm for his work and a personality which enabled him to secure loyal and efficient service from his associates.

THE death is reported of Mr. T. L. Wilson, of Ottawa, Canada, known for his inventions concerned with acetylene gas and carbide.

SIR CLEMENTS MARKHAM, who took part in the Arctic expedition of 1850 in search of Sir John Franklin, and subsequently engaged in many geographical explorations, president of the Royal Geographical Society from 1893 to 1905, died on January 30, at the age of eighty-six years.

SIR FRANCIS HENRY LOVELL, dean of the London School of Tropical Medicine, died on January 28 in London. Sir Francis had been chief medical officer of Mauritius and a member of the legislative council and he had served as surgeon-general and as a member of the executive and legislative councils of the colonies of Trinidad and Tobago.

SIR H. EVELYN OAKELEY, author of mathematical works and reports on educational subjects, has died, aged eighty-two years.

GRAF ZU SOLMS-LAUBACH, who held the chair of botany first at Göttingen and afterwards at Strasburg, has died at the age of seventy-two years.

GUIDO BACCELLI, professor of clinical medicine at the University of Rome and chief of the general hospital, the Policlinico, the erection of which was mostly his work, has died, aged eighty-four years.

THE New York Academy of Sciences will celebrate in May, 1917, the centenary of its foundation. The president has been authorized by the council of the academy to appoint five committees in charge of exhibition, meetings, funds, history and membership.

AT the close of the Nineteenth International Congress of Americanists, held in Washington, December 27-31, 1915, a formal invitation was accepted from Brazil to hold the next American Congress at Rio de Janeiro in June of 1918. The invitation was extended through Dr. A. C. Simoens da Silva, by the National Museum, National Library, National Archive, the Brazilian Historical and Geographical Institute and the Society of Geography, at Rio de Janeiro, and the Historical and Geographical Institute Fluminense.

AT the tenth annual meeting of the Entomological Society of America, held at Columbus, Ohio, December 29 and 30, the following officers were elected: *President*, F. M. Webster, U. S. Bureau of Entomology; *First Vice-president*, E. P. Felt, New York State Entomologist; *Second Vice-president*, A. L. Melander, Washington State College; *Secretary-Treasurer*, J. M. Aldrich, U. S. Bureau of Entomology, West LaFayette, Indiana; *Additional Members of the Executive Committee*, H. T. Fernald, Massachusetts Agricultural College; W. E. Britton, state entomologist of Connecticut; P. J. Parrott, entomologist, New York Agricultural Experiment Station; E. D. Ball, Oregon Agricultural College; C. Gordon Hewitt, Dominion entomologist.

THE Florida Entomological Society has recently been organized at Gainesville, Florida, with fifteen charter members. The first officers elected were Professor J. R. Watson, entomologist of the Florida Experiment Station, *President*; Mr. Wilmon Newell, plant commissioner of Florida Plant Board, *Vice-president*, and Mr. R. N. Wilson, U. S. Bureau of Entomology, *Secretary-Treasurer*. A paper was read on the Velvet Bean Caterpillar (*Anticarsia gemmatilis*), by Professor Watson, and another by Dr. E. W. Berger, entomologist of the Florida Plant Board, on the fungus diseases of scales and white flies on citrus.

AT the annual meeting of the Brooklyn Entomological Society, held on the thirteenth inst., the following officers were elected for 1916: *President*, W. J. Davis; *Vice-president*, W. T. Bather; *Treasurer*, Chris. E. Olsen; *Recording Secretary*, J. R. de la Torre Bueno; *Corresponding Secretary*, R. P. Dow; *Librarian*, A. C. Weeks; *Curator*, Geo. Frank; *Publication Committee*, C. Schaeffer, R. P. Dow and the recording secretary, *ex-officio*.

WHILE the aniline dye, potash and other chemical industries have attracted a great deal of attention since the beginning of the European war, little has been heard about the great impetus the war has given our electrochemical industries. Many electrochemical products such as chlorine and hydrogen, which were a

drug on the market before the war, have become valuable. New electrochemical industries, like that of metallic magnesium, have been started and the whole electrochemical development is of the utmost importance to the American nation. The New York Section of the American Electrochemical Society has therefore arranged a symposium on "Electrochemical War Supplies" which it will hold jointly with the New York sections of the American Chemical Society and the Society of Chemical Industry at the Chemist's Club, 52 East 41st St., New York, Friday evening, February 11. The program will include the following papers:

Lawrence Addicks: "Electrochemical War Supplies."

W. S. Landis: "Air Saltpeter."

E. D. Ardery (U. S. Army): "Hydrogen for Military Purposes."

Albert H. Hooker: "New War Products."

William M. Grosvenor: "Magnesium."

G. Ornstein: "Liquid Chlorine."

Geo. W. Sargent: "Electric Steel."

ON December 13, there was installed at the University of Pittsburgh, the Beta chapter of the Sigma Gamma Epsilon, the charter members of the new chapter consisting of Dean H. B. Meller, dean of the school of mines, Professor H. C. Ray, professor of metallurgy, and sixteen undergraduates. The Sigma Gamma Epsilon fraternity was founded at the University of Kansas during the past year, and its membership is confined to teachers of geology, mining, or metallurgy, and students who are specializing in those subjects.

THE executive committee of the Association of American Universities held a meeting at the University of Pennsylvania on January 24. There were present the following representatives of five universities: Dr. Thomas McBride, president of the State University of Iowa, the president of the association; President Frank J. Goodnow, of Johns Hopkins University, vice-president of the association; President William A. Bryan, of Indiana University; President A. Ross Hill, of the University of Missouri. The University of Pennsylvania was represented by Provost Edgar F.

Smith and Dean Herman V. Ames, the University of Pennsylvania, being secretary of the association. The chief business before the committee was to arrange the next annual meeting of the association, which it was voted should be held next fall at Clark University, Worcester, Mass. The following topics were selected for discussion at that time: "How Can Universities be Organized so as to Stimulate work for the Advancement of Science"; "Military Training in Universities and Colleges"; "The Correlation of Work for Higher Degrees in the Graduate School and in Professional Schools."

FOR ten weeks during the summer of 1916 a party of students and professors from the department of forestry of the New York State College of Agriculture at Cornell University will be in camp on the forest tract belonging to Mr. T. C. Luther at the south end of Saratoga Lake. Last year the Cornell forestry department was in camp on a forest tract in the Northern Adirondacks, on which an estimate of the standing timber was made and a general plan for management was drawn up. A similar study will be made on Mr. Luther's tract, except that in 1916, owing to the proximity of this tract to numerous wood-using mills, greater attention can be paid to the problems of forest utilization.

UNIVERSITY AND EDUCATIONAL NEWS

A "PLAN for the Development of the University of California Medical School" has been formally adopted by the regents of the University of California, as a policy to be worked toward. The University of California has now increased to a total of \$162,221 per annum its expenditures on medical instruction, over and above the hospital receipts, and within the next few months it will complete the erection, at a cost of \$615,000, of a new 216-bed teaching hospital. The regents have now outlined as the immediate future needs of the medical school, a new laboratory building for anatomy and pathology, to cost \$150,000; an "out-patient" building in conjunction with the new teaching hospital, to cost \$100,-